

Remarks begin on page 7 of this paper.

**Amendments to the Specification**

**IN THE TITLE:**

Please replace the title with the following title:

--COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR ANALYZING NUCLEAR  
MAGNETIC RESONANCE DATA--.

**IN THE SPECIFICATION:**

Please enter the substitute specification attached herewith as Exhibit A. The substitute specification is not believed to contain new matter. A marked-up copy of the original specification, showing the changes implemented in the substitute specification, is attached as Exhibit B.

**IN THE ABSTRACT:**

Please replace the Abstract of the Disclosure with the following Abstract of the Disclosure:

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**--ABSTRACT OF THE DISCLOSURE**

B1  
A computer-implemented system and method for analyzing nuclear magnetic resonance data are disclosed. The NMR data contains at least one relaxation signal of a sample. The system and method separates the NMR data into at least two parts that are differently dependent upon an echo time.--

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